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1	L1	inomata.in. and kohshiro.in.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:29	8
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3	L3	L1 and L2	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:30	3

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4	L4	fuji-xerox.asn.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:30	11
5	L5	L3 and L4	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:30	0
6	L6	380/271.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:30	77

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7	L7	380/271.ccls. and "compressing" and "encrypting" near "data"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:31	1
8	L8	380/28.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:31	1506
9	L9	380/28.ccls. and "compressing" and "encrypting" near "data"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:31	17

	L #	Search Text	DBs	Time Stamp	Hits
10	L10	380/30.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:32	1359
11	L11	380/30.ccls. and "compressing" and "encrypting" near "data"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:32	8
12	L12	380/277.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:32	1334

	L #	Search Text	DBs	Time Stamp	Hits
13	L13	380/277.ccls. and "compressing" and "encrypting" near "data"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:32	15
14	L14	(encrypt\$3) near (reference) adj (table)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:34	4
15	L15	(compress\$3) near (data) near (reference) adj (table)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:34	11

	L #	Search Text	DBs	Time Stamp	Hits
16	L16	(multiplex\$3) near (compress\$3) adj (data)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:34	220
17	L17	L14 and L15	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:34	1
18	L18	L17 and L16	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:35	1

	L #	Search Text	DBs	Time Stamp	Hits
19	L19	((hash\$3 or compress\$3) adj5 (data or information)) with (reference near3 table)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:35	237
20	L20	(encrypt\$3 or encipher\$3) with (reference near3 table)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:35	211
21	L21	L19 and L20	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/20 19:36	1

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22	BRS	L22	compressing AND encrypting AND data AND original AND reference AND table.CLM.	US- PGPUB	2007/12/20 19:38	88
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24	BRS	L24	compressing AND encrypting AND data AND original AND reference AND table AND multiplexor AND quantization AND values AND frequency AND components.CLM.	US- PGPUB	2007/12/20 19:39	36
25	BRS	L25	compressing AND encrypting AND data AND original AND reference AND table AND multiplexor AND quantization AND values AND frequency AND components AND entropy AND decompression AND decrypting.CLM.	US- PGPUB	2007/12/20 19:40	4
26	BRS	L26	compressing AND encrypting AND data AND original AND reference AND table AND multiplexor AND quantization AND values AND frequency AND components AND entropy AND decompression AND decrypting AND demultiplexor AND partial AND size.CLM.	US- PGPUB	2007/12/20 19:41	1
27	BRS	L27	compressing AND encrypting AND data AND original AND reference AND table AND multiplexor AND quantization AND values AND frequency AND components AND entropy AND decompression AND decrypting AND demultiplexor AND changing AND partial AND data.CLM.	US- PGPUB	2007/12/20 19:41	1



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**Table 1** IPPCP Software with Hardware **Encryption** Feature Summary .... Ratio of **compression** and **decompression** of packets presented to the **compression** ...  
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**Compression**; 5.2. **Decompression**. 6. **Encryption** and **decryption** .... **Table 3** illustrates the magnitude of number of **encryption** key pairs. ...  
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**Decryption** and **encryption** of data is handled in a manner analogous to the technique of **decompression** and **compression** described above. ...  
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**Method and apparatus for encryption or compression devices inside ...**

The two fabrics of claim 51, wherein said mathematical operations are **encryption**, **decryption**, **compression** and **decompression**. ...  
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**Efficient video encryption scheme based on advanced video coding**

and (f), which is also verified by the quality test shown in **Table 1**. ... Time Ratio (%).

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# 1 [Methods for encrypting and decrypting MPEG video data efficiently](#)



Lei Tang

 February 1997 **Proceedings of the fourth ACM international conference on Multimedia  
MULTIMEDIA '96**

Publisher: ACM Press

Full text available: pdf(1.45 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
**Keywords:** MPEG codec, compression, multimedia commerce, multimedia encryption,  
multimedia security

## 2 [Compilation: Adaptive and flexible dictionary code compression for embedded applications](#)



Mats Brorsson, Mikael Collin

 October 2006 **Proceedings of the 2006 international conference on Compilers,  
architecture and synthesis for embedded systems CASES '06**

Publisher: ACM Press

Full text available: pdf(241.01 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Dictionary code compression is a technique where long instructions in the memory are replaced with shorter code words used as index in a table to look up the original instructions. We present a new view of dictionary code compression for moderately high-performance processors for embedded applications. Previous work with dictionary code compression has shown decent performance and energy savings results which we verify with our own measurement that are more thorough than previously published. We ...

**Keywords:** dictionary code compression, fetch path energy, instruction memory  
bandwidth, instruction profiling, processor architecture

## 3 [Storing text retrieval systems on CD-ROM: compression and encryption considerations](#)



Shmuel T. Klein, Abraham Bookstein, Scott Deerwester

 July 1989 **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.53 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The emergence of the CD-ROM as a storage medium for full-text databases raises the question of the maximum size database that can be contained by this medium. As an example, the problem of storing the Trésor de la Langue Française on a CD-ROM is examined in this paper. The text alone of this database is 700 megabytes long, more than a CD-ROM can hold. In addition, the dictionary and concordance needed to access these data must be stored. A further constraint is that some of the ...

#### 4 A fast MPEG video encryption algorithm



Changgui Shi, Bharat Bhargava

September 1998 **Proceedings of the sixth ACM international conference on Multimedia  
MULTIMEDIA '98**

Publisher: ACM Press

Full text available:  pdf(805.58 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** DES, MPEG codec, MPEG video encryption, multimedia data security

#### 5 Reconfigurable hardware solutions for the digital rights management of digital cinema



G. Rouvroy, F.-X. Standaert, F. Lefèbvre, J.-J. Quisquater, B. Macq, J.-D. Legat

October 2004 **Proceedings of the 4th ACM workshop on Digital rights management  
DRM '04**

Publisher: ACM Press

Full text available:  pdf(440.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a hardware implementation of a decoder for Digital Cinema images. This decoder enables us to deal with image size of 2K with 24 frames per second and 36 bits per pixels. It is the first implementation known nowadays that perfectly fits in one single Virtex-II® FPGA and includes AES decryption, JPEG 2000 decompression and fingerprinting blocks. This hardware offers therefore high-quality image processing as well as robust security.

**Keywords:** AES, DRM, FPGA, JPEG 2000, digital cinema, watermarking

#### 6 Research sessions: private and secure databases: Answering aggregation queries in a secure system model



Tingjian Ge, Stan Zdonik

September 2007 **Proceedings of the 33rd international conference on Very large data  
bases VLDB '07**

Publisher: VLDB Endowment

Full text available:  pdf(321.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

As more sensitive data is captured in electronic form, security becomes more and more important. Data encryption is the main technique for achieving security. While in the past enterprises were hesitant to implement database encryption because of the very high cost, complexity, and performance degradation, they now have to face the ever-growing risk of data theft as well as emerging legislative requirements. Data encryption can be done at multiple tiers within the enterprise. Different choice ...

#### 7 Efficient frequency domain video scrambling for content access control





Wenjun Zeng, Shawmin Lei

October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1) MULTIMEDIA '99**

Publisher: ACM Press

Full text available: pdf(1.65 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Multimedia data security is very important for multimedia commerce on the Internet such as video-on-demand and real-time video multicast. Traditional cryptographic algorithms for data security are often not fast enough to process the vast amount of data generated by the multimedia applications to meet the real-time constraints. This paper presents a joint encryption and compression framework in which video data are scrambled efficiently in the frequency domain by employing selective bit scr ...

**Keywords:** compression, content access control, multimedia commerce, multimedia encryption, multimedia security, selective encryption, video scrambling

8 Optimizing the energy consumed by secure wireless sessions: wireless transport layer security case study

Ramesh Karri, Piyush Mishra

April 2003 **Mobile Networks and Applications**, Volume 8 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(151.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we identified the various sources of energy consumption during the setup, operation and tear down of a secure wireless session by considering the wireless transport layer security protocol. Our analysis showed that data transfers during a secure wireless transaction, number and size of messages exchanged during secure session establishment and cryptographic computations used for data authentication and privacy during secure data transactions in that order are the main sources of en ...

**Keywords:** WTLS, energy-efficient, mobile, secure session, security, wireless

9 Profile-guided code compression



Saumya Debray, William Evans

May 2002 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2002 Conference on Programming language design and implementation PLDI '02**, Volume 37 Issue 5

Publisher: ACM Press

Full text available: pdf(178.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As computers are increasingly used in contexts where the amount of available memory is limited, it becomes important to devise techniques that reduce the memory footprint of application programs while leaving them in an executable form. This paper describes an approach to applying data compression techniques to reduce the size of infrequently executed portions of a program. The compressed code is decompressed dynamically (via software) if needed, prior to execution. The use of data compression t ...

**Keywords:** code compaction, code compression, code size reduction, dynamic decompression

10 Optimizing document format: Two diet plans for fat PDF

Thomas A. Phelps, Robert Wilensky





November 2003 **Proceedings of the 2003 ACM symposium on Document engineering  
DocEng '03**

**Publisher:** ACM Press

Full text available: pdf(198.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As Adobe's Portable Document Format has exploded in popularity so too has the number PDF generators, and predictably the quality of generated PDF varies considerably. This paper surveys a range of PDF optimizations for space, and reports the results of a tool that can postprocess existing PDFs to reduce file sizes by 20 to 70% for large classes of PDFs. (Further reduction can often be obtained by recoding images to lower resolutions or with newer compression methods such as JBIG2 or JPEG2000, bu ...

**Keywords:** PDF, compact PDF, compression, multivalent

11 Storing text retrieval systems on CD-ROM: compression and encryption  
considerations



S. T. Klein, A. Bookstein, S. Deerwester

May 1989 **ACM SIGIR Forum , Proceedings of the 12th annual international ACM  
SIGIR conference on Research and development in information retrieval  
SIGIR '89**, Volume 23 Issue SI

**Publisher:** ACM Press

Full text available: pdf(940.61 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 A sample-based cache mapping scheme



Rong Xu, Zhiyuan Li

June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN/SIGBED  
conference on Languages, compilers, and tools for embedded systems  
LCTES '05**, Volume 40 Issue 7

**Publisher:** ACM Press

Full text available: pdf(164.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Applications running on the StrongARM SA-1110 or XScale processor cores can specify cache mapping for each virtual page to achieve better cache utilization. In this work, we describe a method to efficiently perform cache mapping. Under this scheme, we select a number of loops for sampling. These loops are selected automatically based on clock profiling information. We formulate the optimal cache mapping problem as an Integer Linear Programming (ILP) problem. Experiments performed on 14 test prog ...

**Keywords:** cache bypass, cache mapping, handheld devices, mini cache, profiling, trace sampling

13 Using Compressed Bytecode Traces for Slicing Java Programs

Tao Wang, Abhik Roychoudhury

May 2004 **Proceedings of the 26th International Conference on Software  
Engineering ICSE '04**

**Publisher:** IEEE Computer Society

Full text available: pdf(190.61 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Dynamic slicing is a well-known program debugging technique. Given a program P and input I, it finds all program statements which directly/indirectly affect the values of some variables' occurrences when P is executed with I. Dynamic slicing algorithms often proceed by traversing the execution trace of P produced by input I (or a dependence graph which captures control/data flow in the execution trace). Consequently, it is important to develop space efficient representations of the execution trace. In t ...

14 Article abstracts with full text online: AFIS data compression: an example of how domain specific compression algorithms can produce very high compression ratios

Givon Zirkind

November 2007 **ACM SIGSOFT Software Engineering Notes**, Volume 32 Issue 6

**Publisher:** ACM

Full text available:  pdf(931.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article describes the development and implementation of a data compression algorithm designed specifically for fingerprints, referred to as GBP compression. The algorithm is herein discussed. Data Compression algorithms can be designed for general applications, meaning the input data is unknown. This is more commonly referred to as generic data. [LI01] Or, data compression algorithms can be designed for specific applications. e.g. AFIS [Automated Fingerprint Identification Systems] "When ...

**Keywords:** AFIS, automated fingerprint identification systems, compatibility, compression, data compression, data encryption, data integrity, double compression, fingerprinting, graphics, image compression, image quality, limits of compression, portability, retrofitting, serial compression, software engineering

15 File-system development with stackable layers



John S. Heidemann, Gerald J. Popek

February 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(2.16 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Filing services have experienced a number of innovations in recent years, but many of these promising ideas have failed to enter into broad use. One reason is that current filing environments present several barriers to new development. For example, file systems today typically stand alone instead of building on the work of others, and support of new filing services often requires changes that invalidate existing work. Stackable file-system design addresses these issues in several ...

**Keywords:** composability, file system design, operating system structure, reuse

16 Using static analysis to validate the SAML single sign-on protocol



Steffen M. Hansen, Jakob Skriver, Hanne Riis Nielson

January 2005 **Proceedings of the 2005 workshop on Issues in the theory of security WITS '05**

**Publisher:** ACM Press

Full text available:  pdf(264.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Previous studies have successfully used static analysis to automatically validate authentication and confidentiality properties of classical key distribution protocols. In this paper we show how the very same technique can be used to validate modern web-based protocols, in particular, we study the SAML Single Sign-On protocol. The description of the protocol does not supply any security analysis but only lists various recommendations. One of these is to use versions of the TLS protocol for estab ...

**Keywords:** authentication, process calculi, protocol validation, static analysis



### An adaptive cryptographic engine for internet protocol security architectures

Andreas Dandalis, Viktor K. Prasanna

July 2004 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**,  
Volume 9 Issue 3

**Publisher:** ACM Press

Full text available: pdf(264.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Architectures that implement the Internet Protocol Security (IPSec) standard have to meet the enormous computing demands of cryptographic algorithms. In addition, IPSec architectures have to be flexible enough to adapt to diverse security parameters. This article proposes an FPGA-based Adaptive Cryptographic Engine (ACE) for IPSec architectures. By taking advantage of FPGA technology, ACE can adapt to diverse security parameters on the fly while providing superior performance compared with softw ...

**Keywords:** AES, Adaptive computing, IPSec, configurable, cryptography, high performance, performance tradeoffs, reconfigurable components, reconfigurable computing, reconfigurable systems

### 18 Security: SECA: security-enhanced communication architecture



Joel Coburn, Srivaths Ravi, Anand Raghunathan, Srimat Chakradhar

September 2005 **Proceedings of the 2005 international conference on Compilers, architectures and synthesis for embedded systems CASES '05**

**Publisher:** ACM Press

Full text available: pdf(396.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this work, we propose and investigate the idea of enhancing a System-on-Chip (SoC) communication architecture (the fabric that integrates system components and carries the communication traffic between them) to facilitate higher security. We observe that a wide range of common security attacks are manifested as abnormalities in the system-level communication traffic. Therefore, the communication architecture, with its global system-level visibility, can be used to detect them. The communicati ...

**Keywords:** AMBA Bus, access control, architecture, attacks, bus, communication, digital rights management (DRM), intrusion detection, security, security-aware design, small embedded systems, system-on-chip (SoC)

### 19 On incremental file system development



Erez Zadok, Rakesh Iyer, Nikolai Joukov, Gopalan Sivathanu, Charles P. Wright

May 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 2

**Publisher:** ACM Press

Full text available: pdf(260.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Developing file systems from scratch is difficult and error prone. Using layered, or stackable, file systems is a powerful technique to incrementally extend the functionality of existing file systems on commodity OSes at runtime. In this article, we analyze the evolution of layering from historical models to what is found in four different present day commodity OSes: Solaris, FreeBSD, Linux, and Microsoft Windows. We classify layered file systems into five types based on their functionality and ...

**Keywords:** I/O manager, IRP, Layered file systems, VFS, extensibility, stackable file systems, vnode

### 20 MANTIS OS: an embedded multithreaded operating system for wireless micro sensor platforms



Shah Bhatti, James Carlson, Hui Dai, Jing Deng, Jeff Rose, Anmol Sheth, Brian Shucker,  
Charles Gruenwald, Adam Torgerson, Richard Han  
August 2005 **Mobile Networks and Applications**, Volume 10 Issue 4

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(1.27 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The MANTIS Multimodal system for NeTworks of In-situ wireless Sensors provides a new multithreaded cross-platform embedded operating system for wireless sensor networks. As sensor networks accommodate increasingly complex tasks such as compression/aggregation and signal processing, preemptive multithreading in the MANTIS sensor OS (MOS) enables micro sensor nodes to natively interleave complex tasks with time-sensitive tasks, thereby mitigating the bounded buffer producer-consumer problem. To ac ...

**Keywords:** cross-platform, dynamic reprogramming, embedded operating system, lightweight, low power, multithreaded, sensor networks

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- IET CNF IET Conference Proceeding
- IEEE STD IEEE Standard

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